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CLAIMS

[Claim(s)]

[Claim 1] The upper quilt section which has the unit quilt organization where between the ground and the endoecism ground was divided on the gore tape the upper side, and it filled up with packing, such as feathers, in this divided space, The lower layer quilt section which has the unit quilt organization where between the ground and the endoecism ground was divided on the gore tape the lower side, and it filled up with packing, such as feathers, in this divided space, It is the topping bedding equipped with the medium-rise quilt section which has the unit quilt organization where between the endoecism ground of an above top and the lower endoecism ground was divided on the gore tape, and it filled up with packing, such as feathers, in this divided space. Topping bedding characterized by for each unit quilt organization of the above-mentioned upper quilt section and the lower layer quilt section consisting of solid space of a square drill, and the unit quilt organization of the above-mentioned medium-rise quilt section consisting of solid space of a rhombus.

[Claim 2] the intersection of the gore tape of each rhombus of the unit quilt organization where the medium-rise quilt section adjoins mutually -- the unit quilt organization of the upper quilt section and the lower layer quilt section -- it arranges so that it may come to a core mostly -- having -- and the upper quilt section -- almost -- a core -- the intersection of the gore tape of the lower layer quilt section -- being located -- the topping bedding of the lower layer quilt section according to claim 1 with which the intersection of the gore tape of the upper quilt section is mostly located at the core.

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to the topping bedding of the solid quilt structure where it filled up with feathers etc.

[0002]

[Description of the Prior Art] form the unit quilt organization an organization consist of the square -like space where it fill up with packing , such as a feathers , and consider as solid quilt structure by make the field of the ground into a base a side for example , run the gore tape of **** aslant by turns to the nylon taffeta top which be an endoecism ground , cut perpendicularly from the point that they cross mutually , as this former kind of a topping bedding , and carry out sewing so that it become a drill .

[0003]

[Problem(s) to be Solved by the Invention] However, it laps up and down, the unit quilt organization, i.e., the measure, of the same structure which consists of square-like space, and feathers etc. are filled up with the topping bedding of this conventional kind of solid quilt structure into this. For this reason, the feathers blown into the unit quilt organization When it gets warm and is extended in the vertical direction, i.e., the height direction, it is mutually influenced by the elongation of another [which adjoins in the vertical direction] unit quilt organization. It was what cannot be utilizing thoroughly enough the swelling which feathers etc. originally have although resistance of the elongation of the height direction became large, the work which controls mutually the force which swells by this arose mutually and the unit quilt organization is filled up with feathers etc. so much.

[0004] Moreover, on the structure of bedding when it got warm and was extended in the vertical direction, i.e., the height direction, pack density, such as feathers of the four corners of an assembly and a unit quilt organization, fell [the feathers blown into the unit quilt organization / feathers etc.] to the central site from the four way type of a unit quilt organization, and this conventional kind of topping bedding had the problem which the roughness and fineness of feathers produce locally in the whole bedding.

[0005] while the purpose of this invention can make processes , such as entrainments , such as sewing and feathers , smooth like the topping bedding of the conventional solid quilt structure , it make the force which lose the regulation on the elongation of the height directions , such as feathers blew into the unit quilt organization , as much as possible , and swell increase , and be in the place which offer the topping bedding of the solid quilt structure where of the swelling which feathers etc. originally have can be demonstrate enough .

[0006]

[Means for Solving the Problem] In order to attain the above-mentioned purpose, invention of this claim 1 The upper quilt section which has the unit quilt organization where between the ground and the endoecism ground was divided on the gore tape the upper side, and it filled up with packing, such as feathers, in this divided space, The lower layer quilt section which has the unit quilt organization where between the ground and the endoecism ground was divided on the gore tape the lower side, and it filled up with packing, such as feathers, in this divided space, It is the topping bedding equipped with the medium-rise quilt section which has the unit quilt organization where between the endoecism ground of an above top and the lower endoecism ground was divided on the gore tape, and it filled up with packing, such as feathers, in this divided space. The topping bedding characterized by for each unit quilt organization of the above-mentioned upper quilt section and the lower layer quilt section consisting of solid space of a square drill, and the unit quilt organization of the above-mentioned medium-rise quilt section consisting of solid space of a rhombus was adopted.

[0007] Invention of this claim 2 moreover, the medium-rise quilt section It is arranged. the intersection of the gore tape of each rhombus of the unit quilt organization which adjoins mutually -- the unit quilt organization of the upper quilt section and the lower layer quilt section -- so that it may come to a core mostly and the upper quilt section -- the intersection of the gore tape of the lower layer quilt section was mostly located at the core, and the topping bedding of the lower layer quilt section according to claim 1 with which the intersection of the gore tape of the upper quilt section is located at the core was adopted mostly.

[0008] by the above-mentioned configuration , like the topping bedding of the conventional solid quilt structure , while this invention can make processes , such as entrainments , such as sewing and feathers , smooth , it make the force which lose the regulation on

the elongation of the height directions, such as feathers blew into the unit quilt organization, as much as possible, and swell increase, and can offer the topping bedding of the solid quilt structure where the swelling which feathers etc. originally have can be demonstrate enough.

[0009]

[Embodiment of the Invention] Drawing 1 is an outline perspective view in which showing 1 operation gestalt of the topping bedding of this invention and which includes a cross section in part. Drawing 2 is the partial schematic diagram of the upper quilt section in drawing 1. Drawing 3 is the partial schematic diagram of the medium-rise quilt section in drawing 1. Drawing 4 is the partial schematic diagram of the lower layer quilt section in drawing 1.

[0010] For 1, as for the endoecism ground of tops, such as nylon taffeta, and 3, in drawing, the ground and 2 are [the ground and 4] the endoecism grounds of the bottoms, such as nylon taffeta, a lower side an upper side.

[0011] As shown in drawing 1 and drawing 2, between the ground 1 and the upper endoecism ground 2, the unit quilt organization 6 divided on the gore tape 5 is formed an upper side, and the upper quilt section 7 is constituted. Moreover, as shown in drawing 1 and drawing 3, between the ground 3 and the lower endoecism ground 4, the unit quilt organization 9 divided on the gore tape 8 is formed a lower side, and the lower layer quilt section 10 is constituted. Moreover, as shown in drawing 1 and drawing 4, between the endoecism ground 2 of an above top, and the lower endoecism ground 4, the unit quilt organization 12 divided on the gore tape 11 is formed, and the medium-rise quilt section 13 is constituted.

[0012] Moreover, as the topping bedding of this operation gestalt is shown in drawing 1 - drawing 4, each unit quilt organizations 6 and 9 of the upper quilt section 7 and the lower layer quilt section 10 consist of solid space of a square drill. And the unit quilt organization 12 of the medium-rise quilt section 13 consists of solid space of a rhombus.

[0013] moreover, the intersection 111 of the gore tape 11 of each rhombus of the unit quilt organization 12 where the medium-rise quilt section 13 adjoins mutually as shown in drawing 1 - drawing 4 -- the unit quilt organization 6 of the upper quilt section 7 -- it is arranged so that it may come to a core mostly. and the intersection 81 of the gore tape 8 of four square shapes each of the unit quilt organization 9 where the lower layer quilt section 10 adjoins mutually -- the unit quilt organization 12 of the medium-rise quilt section 13 of a rhombus -- it is arranged so that it may come to a core mostly. moreover, the upper quilt section 7 -- almost -- a core -- the intersection of the gore tape 81 of the lower layer quilt section 10 -- being located -- the lower layer quilt section 10 -- the intersection 51 of the gore tape 5 of the upper quilt section 7 is mostly located at the core.

[0014] Moreover, the gore tape 11 divided to the rhombus which constitute the medium-rise quilt section 13 pull the endoecism ground 2 of the upper quilt section 7 inside in the center section 61 of the unit quilt organization 6, and the topping bedding of this operation gestalt constitute the solid space of the square drill which make the center section 61 of the unit quilt organization 6 of the upper quilt section 7 top-most vertices, as show in drawing 1 - drawing 4. Moreover, the gore tape 11 divided to the rhombus which constitutes the medium-rise quilt section 13 pulls the endoecism ground 4 of the lower layer quilt section 10 inside in the center section 91 of the unit quilt organization 9, and constitutes as solid space of the square drill which makes the center section 91 of the unit quilt organization 9 of the lower layer quilt section 10 top-most vertices. And the upper quilt section 7, the center section 61, and the center section 91 of the lower layer quilt section 10 which constitute each top-most vertices of the solid space of a square drill have shifted a longitudinal direction and crosswise every [2 / 1].

[0015] Therefore, even if the topping bedding of the operation gestalt from a book fills up each unit quilt organizations 6, 12, and 9 of the upper quilt section 7, the medium-rise quilt section 13, and the lower layer quilt section 10 with packing, such as feathers, and packing, such as the feathers concerned, swells in the vertical direction in each unit quilt organizations 6, 12, and 9 after that, since there is almost no contiguity packing which regulates this, the swell force increases on structure. Moreover, even if the pack density of packing, such as feathers, becomes large in the center section of each unit quilt organizations 6, 12, and 9, it will become pack density uniform as the whole bedding.

[0016] Moreover, since the bedding of this operation gestalt is the above-mentioned structure and the class section is pyramid structure when packing, such as feathers, tends to swell including air in the time of use etc., feathers etc. tend to reach even the top-most vertices of a square drill, or its reverse field by the natural force. Moreover, since the measure of the class quilt section, i.e., the magnitude of a unit quilt organization, differs from a form, the force when swelling is distributed and the force in which feathers etc. swell can be harnessed more. Since size, smallness, and various large thing measures, i.e., a unit quilt organization, have lapped by turns regularly further again, packing cannot incline easily and uniform pack density can be formed in the whole bedding.

[0017] Since it is such, even if, fills, such as feathers, the measure, i.e., the unit quilt organization, of each [bedding / of this operation gestalt / topping], are the same at least, and feathers etc. can swell enough taking advantage of the force in which feathers etc. swell as compared with the bedding of three-layer solid quilt structure. Especially the bedding of this operation gestalt is the solid quilt structure which can promote the swelling force, when packing is feathers and feathers get warm and swell at the time of use.

[0018] Drawing 5 - drawing 9 are the conceptual diagrams showing the sewing location of the gore tape in the bedding concerning

this operation gestalt. Drawing 5 is the outline bottom view (outline rear-face Fig.) of the ground 1 an upper side. Drawing 6 is the outline plan of the upper endoecism ground 2. Drawing 7 is the outline bottom view of the upper endoecism ground 2. Drawing 8 is the outline plan of the ground 3 a lower side. Drawing 9 is the outline bottom view of the ground 3 a lower side. Drawing 10 is the outline plan (outline surface Fig.) of the ground 3 a lower side. The bedding concerning this operation gestalt carries out sewing of each gore tape in this sewing location, and makes it a spacial configuration. in addition -- this operation gestalt -- a gore tape -- each -- sewing is carried out to the front rear face (the front face of the grounds 1 and 3 is removed a side.) of the ground, respectively -- having -- **** -- each -- although it is carrying out sewing of the gore tape of the ground mutually and the solid space of a unit quilt organization is formed, this invention is limited to this -- not having -- each -- sewing can be carried out to one of the two of the ground, and the solid space of a unit quilt organization can also be formed for this as a common gore tape.

[0019] In addition, although all are not shown in the bedding of the above-mentioned operation gestalt in said drawing, restoration opening of packing, such as feathers, is formed in the appearance shown in following drawing 11 - drawing 13 on manufacture. The outline sectional view in which drawing 11 shows the upper quilt section 7, the outline sectional view in which drawing 12 shows the medium-rise quilt section 13, and drawing 13 are the outline sectional views showing the lower layer quilt section 10.

[0020] As shown in the upper quilt section 7 at drawing 11 , the restoration opening 71 could open in each unit quilt organization 6 of one side of bedding, and the restoration opening 72 has opened in the interior. Moreover, as shown in the medium-rise quilt section 13 at drawing 12 , the restoration opening 131 could open in each unit quilt organization 6 of the both sides of bedding, and the restoration opening 72 has opened in the interior. Moreover, as shown in the lower layer quilt section 10 at drawing 13 , the restoration opening 101 could open in each unit quilt organization 9 of one side of bedding, and the restoration opening 102 has opened in the interior.

[0021] Thus, when manufacturing the bedding of this invention, the approach filled up with packing, such as feathers, one by one from a unit quilt organization at the very back from restoration opening in the unit quilt organization in the class quilt section can be adopted. And the approach filled up with packing, such as feathers, one by one for every class quilt section is employable. In addition, on manufacture, after being filled up with packing, such as feathers, from the medium-rise quilt section, the approach of filling up the upper layer or the lower layer quilt section with packing, such as feathers, is desirable. Since it is such, even if the production process of the bedding of this invention compares with the bedding of the conventional solid quilt structure, it is not complicated, and can be manufactured easily.

[0022] in addition -- although the longitudinal direction central region of bedding is classified into the square for the unit quilt organization of the bedding concerning this operation gestalt in the upper quilt section 7 -- those both sides -- the square of this central region -- it classifies in a half area mostly -- having -- further -- those four corners -- about [of the square of this central region] -- it is classified in one fourth of area. However, this invention is not limited to this. However, constituting from this surface ratio is most desirable, considering the magnitude of bedding etc. Furthermore, in the unit quilt organization of the medium-rise quilt section 13, although classified in one half of area to the inner region of bedding in the circumference region of bedding, this invention is not limited to this. However, constituting from this surface ratio is most desirable, considering the magnitude of bedding etc. Moreover, this is not limited, either, although the lower layer quilt section 10 constitutes the unit quilt organization from same surface ratio mostly altogether. In short, the surface ratio of each unit quilt organization in the class quilt section can be suitably set up freely, when attaining the purpose of this invention.

[0023]

[Effect of the Invention] Since this invention is as above-mentioned, while being able to make processes, such as entrainments, such as sewing and feathers, smooth, like the topping bedding of the conventional solid quilt structure The force which loses the regulation on the elongation of the height directions, such as feathers blown into the unit quilt organization, as much as possible, and swells is made to increase. The swelling which feathers etc. originally have could be demonstrated enough and the topping bedding of the solid quilt structure which becomes still more uniform [the pack density of packing, such as feathers as the whole bedding,] was able to be offered.

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EFFECT OF THE INVENTION

[Effect of the Invention] Since this invention is as above-mentioned, while being able to make processes, such as entrainments, such as sewing and feathers, smooth like the topping bedding of the conventional solid quilt structure, The force which loses the regulation on the elongation of the height directions, such as feathers blown into the unit quilt organization, as much as possible, and swells was able to be made to have been able to increase, the swelling which feathers etc. originally have could be demonstrated enough, and the topping bedding of the solid quilt structure which becomes still more uniform [the pack density of packing, such as feathers as the whole bedding,] was able to be offered.

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is the outline perspective view in which showing 1 operation gestalt of the topping bedding of this invention and which includes a cross section in part.

[Drawing 2] It is the partial schematic diagram of the upper quilt section in drawing 1 .

[Drawing 3] It is the partial schematic diagram of the medium-rise quilt section in drawing 1 .

[Drawing 4] It is the partial schematic diagram of the lower layer quilt section in drawing 1 .

[Drawing 5] It is the outline bottom view (outline rear-face Fig.) of the ground 1 an upper side.

[Drawing 6] It is the outline plan of the upper endoecism ground 2.

[Drawing 7] It is the outline bottom view of the upper endoecism ground 2.

[Drawing 8] It is the outline plan of the ground 3 a lower side.

[Drawing 9] It is the outline bottom view of the ground 3 a lower side.

[Drawing 10] It is the outline plan (outline surface Fig.) of the ground 3 a lower side.

[Drawing 11] It is the outline sectional view showing the upper quilt section.

[Drawing 12] It is the outline sectional view showing the medium-rise quilt section.

[Drawing 13] It is the outline sectional view showing the lower layer quilt section.

[Description of Notations]

1 It is Ground Upper Side.

2 Upper Endoecism Ground

3 It is Ground Lower Side.

4 Lower Endoecism Ground

5 Gore Tape

6 Unit Quilt Organization

7 The Upper Quilt Section

8 Gore Tape

9 Unit Quilt Organization

10 Lower Layer Quilt Section

11 Gore Tape

12 Unit Quilt Organization

13 Medium-rise Quilt Section

[Translation done.]